# The effect of transfusion on cerebral oxygenation in traumatic brain injury

Submission date 08/09/2005

**Recruitment status**No longer recruiting

Registration date

Overall study status

06/10/2005

Completed

**Last Edited** 

**Condition category** 

03/03/2009 Injury, Occupational Diseases, Poisoning

Retrospectively registered

? Protocol not yet added

SAP not yet added

Results added

? Raw data not yet added

Study completed

# **Plain English Summary**

Not provided at time of registration

# Contact information

# Type(s)

Scientific

# Contact name

Prof Arun Gupta

### Contact details

Department of Anaesthesia Box 93 Cambridge United Kingdom CB2 2QQ akg01@globalnet.co.uk

# Additional identifiers

EudraCT/CTIS number

**IRAS** number

ClinicalTrials.gov number

Protocol/serial number

LREC 02/191

# Study information

# Scientific Title

The effect of transfusion on cerebral oxygenation in traumatic brain injury: a randomised controlled trial

# Study hypothesis

Blood transfusion does not affect brain oxygenation in traumatic brain injury.

# Ethics approval required

Old ethics approval format

# Ethics approval(s)

Not provided at time of registration

# Study design

Randomised controlled trial

# Primary study design

Interventional

# Secondary study design

Randomised controlled trial

# Study setting(s)

Hospital

# Study type(s)

Treatment

# Participant information sheet

# Condition

Traumatic brain injury

### **Interventions**

Blood transfusion - the patients are randomised to 3 different transfusion triggers

# **Intervention Type**

Other

# **Phase**

Not Applicable

# Primary outcome measure

Brain tissue oxygen partial pressure.

# Secondary outcome measures

- 1. Jugular venous saturation
- 2. Lactate/pyruvate ratio
- 3. Neurological outcome
- 4. Cerebral haemodynamics

# Overall study start date

01/07/2002

# Overall study end date

01/12/2005

# **Eligibility**

# Participant inclusion criteria

- 1. Greater than 16 years of age
- 2. Severe traumatic brain injury (i.e. traumatic brain injury resulting in a resuscitated Glasgow coma score of less than or equal to 8, resulting in intracranial hypertension (greater than 20 mmHg for greater than 10 minutes), or requiring neurosurgical intervention
- 3. Informed assent from the next of kin

# Participant type(s)

Patient

# Age group

Adult

### Sex

Both

# Target number of participants

30

# Participant exclusion criteria

- 1. Active haemorrhage
- 2. Active coronary ischaemia as judged by dynamic electrocardiogram (ECG) changes or positive troponin levels not due to myocardial contusion
- 3. Inability to place cerebral oxygenation monitors
- 4. Failure to fall below allocated transfusion threshold during intracranial pressure (ICP) monitoring

### Recruitment start date

01/07/2002

### Recruitment end date

01/12/2005

# Locations

# Countries of recruitment

England

United Kingdom

# Study participating centre Department of Anaesthesia Cambridge United Kingdom CB2 2QQ

# Sponsor information

# Organisation

Cambridge University Hospitals NHS Foundation Trust (UK)

# Sponsor details

Addenbrooke's Hospital Hills Road Cambridge England United Kingdom CB2 2QQ jn254@cam.ac.uk

# Sponsor type

Hospital/treatment centre

### Website

http://www.cuh.org.uk/

### **ROR**

https://ror.org/04v54gj93

# Funder(s)

# Funder type

Research organisation

# **Funder Name**

Association of Anaesthetists of Great Britain and Ireland (UK)

### Funder Name

Intensive Care Society (UK)

# Alternative Name(s)

ICS

# **Funding Body Type**

Private sector organisation

# **Funding Body Subtype**

Associations and societies (private and public)

# Location

**United Kingdom** 

# Funder Name

Codman (Johnson & Johnson) (UK)

# **Results and Publications**

# Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Not provided at time of registration

# **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/03/2009		Yes	No